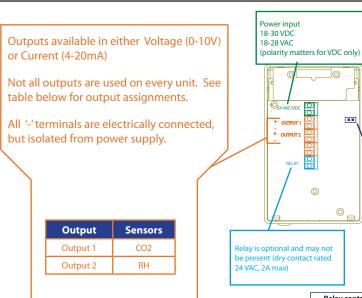
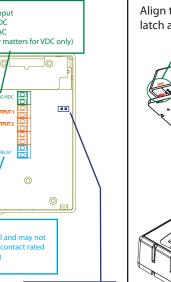
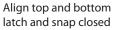


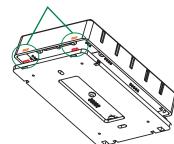
sure cover.



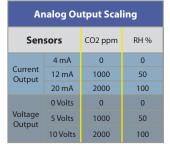


be present (dry contact rated 24 VAC, 2A max)			
Relay Sense Jumper	Relay con	tact state	
OPEN (shorting block on only one pin)	OPEN	CLOSED	
CLOSED (shorting block on both pins)	CLOSED	OPEN	





Warning And Alarm Indication		
Sensors	Warning level LED is YELLOW relay actuates (if equipped)	Alarm level LED is RED beeper sounds (if equipped)
CO2	1000 ppm	2000 ppm
RH	No warning or alarm indication	



Once lid closed, insert set-screws to secure enclosure cover.

Requires 1/16"Allen wrench.

Calibration-Kit

Junction box is for illustration purposes:

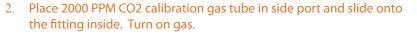
not included with sensor



Your sensor comes factory-calibrated and does not need to be calibrated upon initial installation. Calibration kits are available.

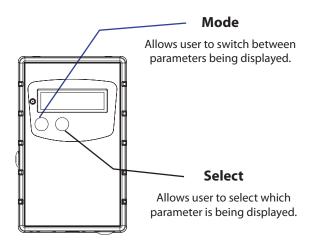
CO2 Calibration Procedure



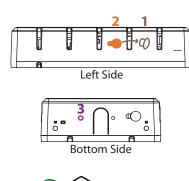


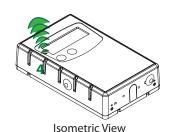
- Allow calibration gas to flow for one minute, then use a 1/16" allen wrench (or equivalent) to depress switch (inside hole 3 at left) for 5 seconds. LED will blink yellow.
- 4. After **5 minutes** the LED will **blink green.** The calibration process is completed.
- Press and hold switch (labeled 3 at left) to accept calibration. The LED will turn solid green after only a few seconds, indicating that calibration is complete.
- 6. At this point it is safe to turn off gas and remove gas tubing from calibration port.
- 7. When calibration is complete, replace dust cover on gas calibration port.

Liquid Crystal Display (if equipped)



Models reporting only CO2 (with out RH option) will not be equipped with 'Mode' and 'Select' buttons.





Introduction

The 350CO2 Series is a non-dispersive infrared analyzer for measuring environmental CO2 concentration in ventilation systems and indoor living spaces. Its measurement range of 0 - 2000 ppm (parts per million; 1000 ppm = 0.1%) covers the range required to monitor compliance with ASHRAE or other ventilation efficiency standards. The 350CO2 comes configured for:

- Wall or duct-mounting;
- Voltage or 4-20mA outputs

Options include:

- No or NC relay;
- Liquid-Crystal Display (LCD);
- Alarm:
- RH sensor

A simple one-point calibration procedure and a built-in calibration port that requires no special fittings or adapters make the 350CO2 simple to operate and maintain.

Displays and Indicators

The 350CO2 Series includes a single tri-color LED on the front panel which illuminates whenever the unit is operating. This LED indicates:

- Green -> all sensor/s at normal levels
- Yellow -> one or more sensors at Warning levels
- Red -> one or more sensors at Alarm level
- Blinking Red -> one or more sensors have failed

The display option adds a 4 digit liquid crystal display (LCD) to the front panel. The display shows the measured:

- CO2 concentration in parts per million (ppm)
- Relative Humidity in %

Overall Specification			
Parameter	Value		
Power Requirements	18 - 30 VDC or 18 - 28 Vrms AC		
Power Consumption	2.5 VA (with out VOC sensor)		
	4 VA (with VOC sensor)		
Operating Temperature Range	0 - 50 °C		
Operating Humidity Range	0 - 99% RH, non-condensing		
Voltage Output (linear)	0 - 10 VDC full-scale standard		
Optional Current Output (linear)	4-20 mA R _{LOOP} < 600 Ω		
Storage Temperature	-10 to 60 °C		
Dimensions	4.5 x 2.8 x 0.9 inches		

CARBON DIOXIDE SENSOR (CO2)		
Parameter	Value	
Operating Principle	Non-dispersive infrared (NDIR)	
Gas Sampling Method	Diffusion	
Measurement Range	0-2000 ppm (Other ranges available by request)	
Repeatability	± 20 ppm CO2	
Measurement Accuracy	± 30 ppm ± 2% of reading	
Recommended Calibration Interval	5 years	
Warm Up Time	Less than 1 minute	
Calibration	ONE Point : Single-button calibration (Patented)	

RELATIVE HUMIDITY SENSOR (RH)		
Parameter	Value	
Operating Temperature	0 to 50 °C	
Measurement Range	0 to 99 % RH	
Recovery time after 150 hours of condensation	10 Seconds	
Humidity Hysteresis	± 1 % RH	
Recommended Calibration Interval	Does not need calibration	









